

SAMPLE CONTRACT

KT-CT.3.5.2# - DESIGNATION BY SPECIES AND DIAMETER (09/2004)

Trees that meet Utilization Standards are designated for cutting, as shown on the Tree Designation Table and Sale Area Map, except trees Marked with N/A paint or described to be left uncut.

See Tree Designation Table.

Additional trees to be cut, if any, are Marked with N/A paint.

All Orange-banded trees shall be left as leave trees, unless Marked with N/A paint. Leave N/A trees of the designated cut species, N/A inches stump diameter or greater, to avoid leave tree spacing greater than N/A feet. Cutting unit boundaries and other trees that shall be left uncut are Marked with ORANGE slashes at eye level or ORANGE bands (with stump mark) paint.

Distances are measured horizontal distance, outside bark stump height to outside bark stump height. Stump diameter is measured outside bark at stump height in a horizontal and is the average of a measurement across the short axis through the true center of the stump and a second measurement at right angles to the short axis.

Contractor and Forest Service shall agree to skid trail location under BT6.422. Skid trails shall be no greater than N/A feet wide with a N/A foot spacing. Quantities of trees located in skid trails are not (unless included as designated species in Designation Table) Included Timber under AT2.

FS-2400-13T (9/04)

WO-KT-CT.3.5.2# – DESIGNATION BY SPECIES AND DIAMETER. (09/04)**Tree Designation Table**

Payment Unit(s) or Cutting Unit(s)	Designated Species <u>1/</u>	More Than Stump Diameter (inches) <u>2/</u>	Less Than Stump Diameter (inches) <u>2/</u>
4 & 5	All trees that meet minimum merchantability specifications in AT.2 EXCEPT red pine, white pine, hemlock and cedar.	>=6.0"	

Payment Unit boundaries: Exterior boundaries are marked with 3 ORANGE paint slashes above stump height; interior boundaries are marked with 2 ORANGE paint slashes above stump height on each side of the boundary. Boundary trees are also marked below stump height. Paint marks face to the INSIDE of the Payment Unit. BOUNDARY TREES ARE NOT TO BE CUT.

Contract Name: Yurt Stewardship

KT-CT.3.5.5# - INDIVIDUAL TREES, CUT TREE MARKING (06/2009)

Individual trees to be cut are Marked with indicated color above and below stump height in all or parts of the following Payment Units. Areas of Cut Tree Marking are shown on the Contract Area Map with the symbol "CTM."

PAYMENT UNIT(S)

PAINT COLOR

R9-KT-CT.3.5.5# - INDIVIDUAL TREES. (11/2007)

Cut Tree Marking Table

Payment Units	Paint Color
1,2,3,6,7,8,9,10,11,12,13,14,15,16,17,19,20	Blue
18	Green
21 (ROW)	Yellow

Payment Unit boundaries: Exterior boundaries are marked with 3 ORANGE paint slashes above stump height; interior boundaries are marked with 2 ORANGE paint slashes above stump height on both sides of the tree. Boundary trees are also marked below stump height. Paint marks face to the inside of the Payment Unit. These boundary trees are NOT to be cut, unless designated by the Forest Service.

Contract Name: Yurt Stewardship

KT-FT.1.0.3# - APPROACHES TO SURFACED ROADS (06/2009)

Contractor shall apply and maintain PU 2/18: 45 CY pitrun; PU 3: 15 CY pitrun; PU 7: 45 CY pitrun & 15 CY crushed gravel; PU 12: 45 CY pitrun; PU 15: 15 CY pitrun & 15 CY crushed gravel inches of material indicated by Temporary roads in each Payment Unit on all Temporary Road approaches to surfaced roads for a distance of as directed by Forest Service feet back from the surfaced road. Surfaced roads include those with:

as shown on Work Map that will be provided to Contractor

KT-FT.1.2# - USE OF ROADS BY CONTRACTOR (09/2004)

Contractor's use of existing roads identified on Contract Area Map by the following codes is prohibited or subject to restrictive limitations, unless agreed otherwise:

Code	Use Limitations
X	Hauling prohibited
R	Hauling restricted
U	Unsuitable for hauling prior to completion of agreed reconstruction
P	Use prohibited
A	Public use restriction
W	Regulation waiver

Roads coded A will be signed by the Forest Service to inform the public of use restrictions. Contractor's use of roads coded R, A, or W shall be in accordance with the following restrictions:

See Restricted Road List Table.

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WO-KT-FT.1.2# – USE OF ROADS BY CONTRACTOR. (09/04)**Restricted Road List**

Road Number	Road Name	Termini		Map Legend	Description of Restrictions
		From	To		
3110-Z	FR 3110-Z	MP 0.00	End	P	Use Prohibited (road to Water Treatment Lagoon)
3110-ZZA	FR 3110-ZZA	MP 0.10	End	U	Hauling Prohibited
3110-2Z	FR 3110-2Z	MP 0.00	MP 0.01	U	Unsuitable for haul prior to agreed reconstruction.
3110-2Z	FR 3110-2Z	MP 0.18	End	X	Hauling Prohibited
3110-3Z	FR 3110-3Z	MP 0.30	MP 0.75	U	Unsuitable for haul prior to agreed reconstruction.
3110-4Z	FR 3110-4Z	MP 0.00	MP 0.05	U	Unsuitable for haul prior to agreed reconstruction.
3110-W	FR 3110-W	MP 0.42	End	X	Hauling Prohibited
3110-W1	FR 3110-W1	MP 0.28	End	X	Hauling Prohibited
3110-Y	FR 3110-Y	MP 0.00	MP 0.02	U	Unsuitable for haul prior to agreed reconstruction.
3110-Y	FR 3110-Y	MP 0.31	End	X	Hauling Prohibited
3110-Y	Gate			R	Gate shall be closed and locked when operations are not in progress
3118	FR 3118	MP 0.00	MP 0.09	R	Requires frozen 4" snowmat prior to skidding or hauling on
3118	FR 3118	MP 0.09	End	X	Hauling Prohibited
3118-A	FR 3118-A	MP 0.00	End	X	Hauling Prohibited
3118-B	FR 3118-B	MP 0.00	MP 0.13	R	Requires frozen 4" snowmat prior to skidding or hauling on
3118-B	FR 3118-B	MP 0.13	End	X	Hauling Prohibited
3119	FR 3119	MP 0.84	End	X	Hauling Prohibited
3119-C	FR 3119-C	MP 0.00	0.19	U	Unsuitable for haul prior to agreed reconstruction.
Stambaugh Pit Road	Gate			R	Gate shall be closed and locked when operations are not in progress
All Unidentified Roads Marked with "X"				X	Hauling Prohibited, Use for skidding must be approved prior to use.

Contract Name: Yurt Stewardship

KT-FT.1.3# - ROAD COMPLETION DATE (09/2004)

Construction of Specified Roads shall be completed no later than 10/01/2013; except for earlier construction completion dates for roads listed below:

Road Number	Road Name	Station		Completion Date
		From	To	

N/A

Completion date is binding on the party that constructs road, whether Contractor or Forest Service. Contracting Officer may modify the completion date in writing to conform to the Technical Proposal under GT.3.1.1 at the request of Contractor.

When Contractor elects Forest Service construction of Specified Roads shown in contract advertisement, Forest Service may adjust construction completion date when road construction is delayed or interrupted for causes that qualify for an adjustment of the completion date of Forest Service's road construction contract. When qualifying delays or interruptions of road construction occur, Forest Service shall evaluate such occurrences and document any findings. The current status of any adjustment shall be available to Contractor on request. Promptly after the end of Normal Operating Season in which qualifying days occur, Forest Service shall give Contractor written notice of (a) number of qualifying days claimed, and (b) new construction completion dates. After all road construction is complete, Forest Service shall grant Contract Term Adjustment. Such adjustment shall be limited to road completion date delays that occurred during Normal Operating Season.

If Forest Service is responsible for road construction and the actual date of road completion is 1 year or more after the completion date stated above, Contractor may request a rate redetermination under DT.3 for remaining volume. Such request must be made within 30 days of notification that road construction has been completed. Upon receipt of such request, Forest Service shall redetermine rates using standard methods in effect on the completion date of road construction. Rates to be established shall apply to all timber removed from Contract Area after the effective date of the rate redetermination.

Forest Service shall in no way be responsible for any delay or damage caused by road contractor in performing the road construction, except such delay as may be the fault or negligence of Forest Service.

When Contractor constructs Specified Roads and requests Contract Term Adjustment, completion dates shall be adjusted by number of days that qualify for such adjustment, provided such qualifying days occur before specified construction completion date. When Contractor desires to construct an alternate facility under FT.2.6, Forest Service and Contractor shall agree, in writing, on a construction completion date for alternate facility. Contract Term Adjustment as noted above will apply. Completion date shall be adjusted where a Design Change or physical changes necessitate a modification of Specified Road construction work that increases the scope or magnitude of the required work.

If Contractor fails to complete construction of any or all Specified Roads by applicable completion date, as adjusted, Contract Term Extension shall not be granted.

As used in this Subsection, construction of a road is completed when:

(a) Contractor constructs Specified Roads and Forest Service furnishes Contractor with written notice of acceptance under GT.3.6 or

(b) Forest Service constructs road and furnishes Contractor with written notice authorizing use of road.

Contract Name: Yurt Stewardship

Notwithstanding FT.1, Contractor shall not use a road that Contractor has elected for Forest Service to construct, until construction is completed and Forest Service furnishes Contractor with written notice authorizing use of road.

Contract Name: Yurt Stewardship

KT-FT.2.2.1# - MATERIAL SOURCES (09/2004)

Sources of local materials are designated on Plans and Contract Area Map. Forest Service assumes responsibility for the quality and quantity of material in designated sources. Contractor shall determine the equipment and work required to produce the specified product, including the selection of acceptable material that is reasonably available in the source that meets specifications. The designation of source includes the rights of Contractor to use certain area(s) for plant site, stockpiles, and haul roads.

Should the designated source, due to causes beyond the control of Contractor, contain insufficient acceptable material, Forest Service will provide another source with adjustment in accordance with FT.2.5.3.

When Contractor elects not to use designated sources, Contractor shall furnish the specified product with no adjustment in unit rates. Quality testing shall be the responsibility of Contractor. Test results shall be furnished to Forest Service.

When Contractor elects not to use designated sources and Schedule of Items lists pit development separately, cost allowance will be reduced under FT.2.5.3 when Forest Service determines the work will not be required.

When materials are subject to a weight measurement, the specific gravity or weight/volume relationship used as a basis for determination of estimated quantities shall be:

Source I N/A, Source II N/A, and Source III N/A.

Contractor may, when agreed in writing, use on the project such suitable stone, gravel, and sand, or other material found in the excavation, and will earn a cost allowance for the excavation of such materials at the corresponding contract unit price and for the pay items for which the excavated material is used. Contractor shall replace, without additional cost allowance, sufficient suitable materials to complete the portion of the work, which was originally contemplated to be constructed with such material. Contractor shall not excavate or remove any material, except that which is within the excavation limits, without written authorization from Forest Service.

When material is appraised from non-National Forest designated sources, owner charges for the material in terms of unit cost for royalties, purchase of raw materials, or finished products shall be as follows until N/A:

See Material Source Table.

Should quantity vary from that estimated, payment to owners shall be for units actually obtained. Contractor shall make arrangements with owner(s) for measurement and payment for royalties, purchase of raw materials, or finished products, as shown above.

Materials produced or processed from National Forest lands in excess of the quantities required for performance of this contract are the property of Forest Service, unless prior written agreement has been obtained to use excess material on other National Forest contracts. Forest Service is not obligated to reimburse Contractor for the cost of their production.

Materials shall be stored to assure the preservation of their quality and fitness for the work. Stored materials shall be located to facilitate their prompt inspection. Sites on Forest Service administered land, approved by Forest Service, may be used for storage purposes and for the placing of Contractor's plant equipment. All storage sites provided by Forest Service shall be restored at Contractor's expense.

Contract Name: Yurt Stewardship

Contractor shall be responsible for making arrangements for storage on other than Forest Service administered lands.

When the construction of the portion of the project for which Temporary Roads used for hauling materials is completed, all such Temporary Roads shall be restored as nearly as practicable to their original ground profile, unless otherwise agreed in writing.

FS-2400-13T (09/04)

WO-KT-FT.2.2.1# – MATERIAL SOURCES. (09/04)

Material	Type of Purchase	Owner(s)	Unit of Measure	Unit Price	Estimated Quantity	Total
N/A						

Contract Name: Yurt Stewardship

KT-FT.3.1# - ROAD MAINTENANCE REQUIREMENTS (09/2004)

Contractor shall maintain roads in accordance with the following Contract Road Maintenance Requirements Summary:

See Contract Road Maintenance Requirements Summary Table.

FS-2400-13T (9/04)

WO-KT-FT.3.1# – ROAD MAINTENANCE REQUIREMENTS. (09/04)**Contract Road Maintenance Requirements Summary**

Road	Termini		Miles	Applicable Prehaul Road Maintenance Specifications									
	From	To		T-8030	T-8130	T-8310	T-8340	T-8350	T-8360	T-8620			
3110-2Z	MP 0.01	MP 0.18	0.17	P	P	P	P		P				
3110-3Z	MP 0.00	MP 0.30	0.30	P	P	P	P		P				
3110-W	MP 0.00	MP 0.42	0.42	P	P	P	P		P	P			
3110-W1	MP 0.00	MP 0.28	0.28	P	P	P	P		P				
3110-Y	MP 0.02	MP 0.31	0.29	P	P	P	P		P				
3110-Y1	MP 0.00	MP 0.05	0.05	P		P			P	P			
3119	MP 0.00	MP 0.84	0.84	P	P	P	P		P				

P = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable During Haul Road Maintenance Specifications									
	From	To		T-8030	T-8130	T-8310	T-8340	T-8350	T-8360	T-8620			
3110-2Z	MP 0.00	MP 0.18	0.18	P		P	P		P				
3110-3Z	MP 0.00	MP 0.75	0.75	P		P	P		P				
3110-4Z	MP 0.00	MP 0.05	0.05	P		P			P				
3110-W	MP 0.00	MP 0.42	0.42	P		P	P		P				
3110-W1	MP 0.00	MP 0.28	0.28	P		P	P		P				
3110-Y	MP 0.00	MP 0.31	0.31	P		P	P		P	P			
3110-Y1	MP 0.00	MP 0.49	0.49	P		P	P		P				
3119	MP 0.00	MP 0.84	0.84	P		P	P		P				
3119-C	MP 0.00	MP 0.19	0.19	P		P	P		P				
3110-ZZA	MP 0.00	MP 0.10	0.10	P		P	P		P				

P = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Road	Termini		Miles	Applicable Post Haul Road Maintenance Specifications									
	From	To		T-8030	T-8130	T-8310	T-8340	T-8350	T-8360	T-8620			
3110-2Z	MP 0.00	MP 0.18	0.18			P	P	P	P				
3110-3Z	MP 0.00	MP 0.75	0.75			P	P	P	P				
3110-4Z	MP 0.00	MP 0.05	0.05			P		P	P				
3110-W	MP 0.00	MP 0.42	0.42			P	P	P	P	P			
3110-W1	MP 0.00	MP 0.28	0.28			P	P	P	P				
3110-Y	MP 0.00	MP 0.31	0.31			P	P	P	P	P			
3110-Y1	MP 0.00	MP 0.49	0.49			P	P	P	P				
3119	MP 0.00	MP 0.84	0.84			P	P	P	P				
3119-C	MP 0.00	MP 0.19	0.19			P	P	P	P				
3110-ZZA	MP 0.00	MP 0.10	0.10			P	P	P	P				

P = Contractor Performance Item, D = Deposit to Forest Service, D3 = Deposit to Third Party

Contract Name: Yurt Stewardship

KT-GT.2.4# - SITE SPECIFIC SPECIAL PROTECTION MEASURES (09/2004)

Special protection measures needed to protect known areas identified on Sale Area Map or on the ground include:

Cultural Resource Protection Measures: Known site(s) have been identified on the ground and are to be protected. All equipment/vehicles/logging slash are prohibited from these areas. A confidential Work Map of site(s) will be provided to the Contractor prior to operations.

Wildlife and Botanical Protection Measures: There are no known protected botanical or wildlife resources at this time.

Cave Resource Protection Measures: There are no known cave resources at this time.

KT-GT.3.1.3# - CUTTING SCHEDULE (06/2009)

Unless changed by written agreement, only 2 (does not include Payment Unit 21 - road clearing Included Timber) Payment Units may be released for operations at one time, and the sequence of cutting Payment Units shall be : Sequence Contractor's option; must operate Payment Units 11 and 12 in the same winter operating season; and must complete harvest operations and clean-up in same season started .

Unless there is agreement in writing to postpone specific requirements, all contractual requirements on a Payment Unit shall be accepted by Forest Service prior to the release of an additional Payment Unit.

Contract Name: Yurt Stewardship

KT-GT.3.1.4# - OPERATING RESTRICTIONS (06/2009)

Within Contract Area, unless changed by written agreement, the following operating requirements apply:

Restricted operations/activities:

Within Payment Units 1, 3, 6 - 10, 14, 15, 16, 17, and 19: Harvest operations are restricted during the period of 3/16 thru 7/31 (due to soils) and 10/1 thru 12/14 (due to soils).

Within Payment Unit 2: Harvest operations are restricted during the period of 3/16 thru 7/31 (due to soils) and 9/1 thru 12/14 (due to soils).

Within Payment Units 4, 5, and 18: Harvest operations are restricted during the period of 3/16 thru 12/14 (due to aspen regeneration requirements - dormant season logging).

In addition to other contractual requirements, the construction, use and restoration of the permitted entrances (3 existing and 2 temporary entrances) off the FR 3110 (Ottawa Lake Road -County Road) shall comply with the terms and conditions of the permit (Iron County Road Commission). This construction permit expires 8/31/2015. Hauling may not commence until these entrances are accepted.

Pit restoration (per specifications) in the designated gravel permit (Stambaugh Pit) shall be accomplished no later than the end of each operating season.

Prohibited operations/activities:

Within Payment Units 11 and 12, harvest operations are prohibited during the period of 3/16 thru 12/14 (for visitor safety and protection of Ottawa Lake Campground and day use facilities and paved roads). Contractor shall pre-freeze all skid trails prior to forwarding; products must be fully suspended; 4 inches of snow mat is required on FR 3118 and 3118-B prior to forwarding or hauling on these roads to protect the asphalt.

Within Payment Units 13, 15, 20, and those portions of PU 21 (roads) within 400 feet of FR 3110 (Lake Ottawa Road): Harvest operations are prohibited during the period of 3/16 thru 9/30 (due to soils and coordination with traffic and recreation users on the Lake Ottawa Road); and restricted during the period of 10/1 thru 12/14 (due to soils).

KT-GT.3.3.1 - SAFETY (06/2009)

In addition to requirements in GT.3.3, when Contractor's Operations are in progress adjacent to or within recreation zones as shown on Contract Area Map, Contractor shall, unless relieved in writing by Forest Service, post warning signs in the zone and maintain a watchman whose sole duty shall be to warn and advise the public of any hazards caused by Contractor's Operations.

KT-GT.4.1.2 - STUMP MARKS (06/2009)

Trees designated for cutting under CT.3.5 have been marked with paint at breast height and below stump height. Trees shall be felled so as to leave paint on stump.

Contract Name: Yurt Stewardship

KT-GT.4.2# - SKIDDING AND YARDING REQUIREMENTS (06/2009)

As used in this provision, skidding equipment includes rubber-tire and track-mounted skidders, forwarders, bunchers, processors, and any other mechanized equipment that is used off of landings and roads.

Within Payment Unit(s), as shown on Contract Area Map with symbol "SYR": Within Payment Unit 11, harvested products must be forwarded out of the Payment Unit to a location designated by the Forest Service, to the Southwest

Within portions of Payment Unit(s), as shown on Contract Area Map with symbol "SYR" and cross-hatching: Skid trails must be pre-frozen in PU 11 and 12 prior to forwarding operations.

Contractor must maintain a 4-inch snowmat on FR 3118 and 3118-B during forwarding and hauling operations.

All products must be suspended prior to forwarding within PU 11 and 12 (to protect areas within the Developed Recreation Area).

All decked logs and debris/slash shall be removed prior to seasonal road restrictions. Final removal of slash & debris must be completed no later than 5/15 at the end of each operating season in Payment Units 11, 12, 13, 15, and 20, where landings are within paved roads within the Contract Area.

KT-GT.6.2# - SITE SPECIFIC WETLANDS PROTECTION MEASURES (09/2004)

Measures needed to protect wetlands identified on the Sale Area Map or on the ground include:

All logging slash, equipment, and vehicles are prohibited within these areas. Any slash resulting from the Purchaser's Operations shall be removed immediately, or treated as directed by the Forest Service.

KT-GT.6.3# - TEMPORARY ROAD CLOSURE (06/2009)

In addition to GT.6.3, measures to effectively block temporary roads to normal vehicular traffic shall consist of the following:

Payment Unit 3 (off FR 3119) and Payment Unit 20 (off FR 3110-W) Temporary Road closures shall follow the Specifications shown on Typical Drawing - Earthen Berms/Road Closure Devices.

All other temporary roads/back-ins from Ottawa Lake Road (FR 3117) and FR 3118-B shall have aggregate fill removed from ditchlines or the Developed Recreation Area; other temporary roads shall have the aggregate fill spread out and restore the soil to the natural topography. A berm is not required.

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KT-GT.7# - SLASH DISPOSAL METHODS. (06/2009)

Slash Disposal Methods Continued:

SDZ(4) - as shown on the Contract Area Map in Payment Units 10, 13 and 14; and, Payment Units 4, 5, and 18 (due to aspen regeneration requirements) all slash resulting from Purchaser's operations shall either be 1) left at the stump when severed from the merchantable portion of the stem, 2) delimbed in place when bunched with processor-type equipment prior to skidding/forwarding to a central processing point, or 3) spread back evenly across the payment unit, concurrent with operations.

Contract Name: Yurt Stewardship

KT-GT.7# - SLASH DISPOSAL MEASURES (06/2009)

Slash resulting from Contractor's operations shall be removed from lakes, ponds, private land, right-of-way clearings for telephone lines, power lines, pipelines and other authorized facilities, and landings to be seeded under KT-GT.6#.

The tops of trees shall not be left hanging in standing trees. All trees cut for landing and other construction clearings shall be completely severed and not left leaning. Slash resulting from construction clearing shall be treated concurrent with harvest operations.

Other specific slash disposal requirements are as follows:

SDZ - Slash resulting from construction clearing (such as from landings and right-of-way clearing associated with pre-haul maintenance requirements listed in Special Provision KT-GT.7#), and Specified Road construction, shall be lopped and scattered to lie within 3 feet of the ground. All root wads shall be severed from the stem and righted on the ground or otherwise disposed of as directed by the Forest Service, concurrent with operations. Material described above used in the construction of closure berms is excluded from this requirement.

SDZ(1) - as shown on the Contract Map in Payment Units 3, 4, 7, 8, 11, 12, 13, 15 and 20, within a strip 50 feet in width, measured from the forested edge of the road along the Ottawa Lake Road (FR 3110), all slash resulting from the Contractor's operations shall be removed; within an adjacent strip 25 feet in width, all slash shall be lopped and scattered to lie within 3 feet of the ground. SDZ(1) shall be performed concurrent with operations.

SDZ(2) - as shown on the Contract Map in Payment Units 10, 11, 12, 13, 14, 16 and 20, within a strip 50 feet in width, measured from the edge of the Ge-Che Trail, all slash resulting from the Contractor's operations shall be removed; within an adjacent strip 50 feet in width, all slash shall be lopped and scattered to lie within 3 feet of the ground. SDZ(2) shall be performed concurrent with operations.

SDZ(3) - Within the Contract Area, except as specified elsewhere in this Contract, all debris/slash resulting from the use of slashers/processors or similar equipment shall be removed from landings and roadsides and scattered to lie within 3 feet of the ground or otherwise disposed of as directed by the Forest Service, concurrent with operations.

SLASH DISPOSAL REQUIREMENTS CONTINUED ON PAGE 59B.

Slash Disposal treatment zones are shown on the Contract Area Map with symbol "SDZ."

KT-GT.9# - STEWARDSHIP PROJECTS (09/2004)

Performance of stewardship projects shall be in accordance with the following specifications.

Stewardship Projects

KT-GT.9# - STEWARDSHIP PROJECTS. (09/2004)**Stewardship Projects**

Mandatory Stewardship Projects		
Project Number	Project Description	Specification Pages
1-008	Decommission FR 3110-ZZA	SP-2 thru SP-5
2-020	Hagerman Lake Trail (Closure with Boulders)	SP-6
4-004	Wildlife Denning Brush Pile Construction- Payment Unit 4	SP-8
5-005	Wildlife Denning Brush Pile Construction- Payment Unit 5	SP-8
6-001	Produce/Deliver Logs for Fish Cribs (Lake Ottawa)	SP-9
6-002	Produce/Deliver Logs for Fish Cribs (Hagerman Lake)	SP-9
3-017	Berm/Closure Decomm Roads (west of FR 3110-W)	SP-7

Optional Stewardship Projects		
Project Number	Project Description	Specification Pages
7-001	Fish Habitat – Tree Felling/Anchor (Lake Ottawa Shoreline)	SP-10 thru SP-12
8-001	Fish Habitat – Tree Felling/Anchor (Hagerman Lake Shoreline)	SP-10 thru SP-12
9-001	Fish Habitat – Tree Felling/Anchor (Brule Lake Shoreline)	SP-10 thru SP-12
10-004	Aspen Site Preparation (PU 4)	SP-13 thru SP-14
10-005	Aspen Site Preparation (PU 5)	SP-13 thru SP-14
10-018	Aspen Site Preparation (PU 18)	SP-13 thru SP-14

Contract Name: Yurt Stewardship

KT-HT.2 - FIRE PRECAUTIONS (06/2009)

Unless otherwise agreed in writing between the Contractor and the Contracting Officer, the following are specific precautionary measures applicable during Contractor's Operations in Fire Precautionary Period as indicated in AT.9:

1. Contractor shall maintain Forest Service-approved spark arresting devices on any piece of equipment operated by an internal combustion motor. In addition, each piece of motorized equipment shall be equipped with a serviceable round-pointed shovel and an operational fire extinguisher of at least five-pound rating suitable for the equipment being used. All chainsaw operators will have a serviceable round-pointed shovel and one-pound multipurpose fire extinguisher readily available.
2. Contractor shall require that smoking and the building of lunch or warming fires by Contractor's employees, contractors, or subcontractors be confined to designated safe places where flammable debris has been cleared away and where, at the option of the Contractor, smoking or the building of lunch or warming fires may be permitted.
3. Adequate spark arresters shall be maintained on chimneys or stovepipes where wood or coal is being burned in an enclosed device.
4. Contractor shall furnish serviceable firefighting tools. Location, numbers, and types of tools shall be specified in the Fire Prevention and Control Plan in accordance with HT.1.

KT-IT.2.1.2 - MARKET-RELATED CONTRACT TERM ADDITION (11/2008)

The term of this contract may be adjusted when a drastic reduction in wood product prices has occurred in accordance with 36 CFR 223.52. The Producer Price Index used to determine when a drastic reduction in price has occurred is stated in AT.17. Contractor will be notified whenever the Chief determines that a drastic reduction in wood product prices has occurred. If the drastic reduction criteria specified in 36 CFR 223.52 are met for 2 consecutive calendar quarters, after contract award date, Contracting Officer will add 1 year to the contract term, upon Contractor's written request. For each additional consecutive quarter such a drastic reduction occurs, Contracting Officer will, upon written request, add an additional 3 months to the term during Normal Operating Season, except that no single 3-month addition shall extend the term of the contract by more than one year. Contracting Officer must receive Contractor's written request for a market-related contract term addition before the expiration of this contract.

No more than 3 years shall be added to a contract's term by market-related contract term addition unless the following conditions are met:

- (i) The contract was awarded after December 31, 2006; and
- (ii) A drastic reduction in wood product prices occurred in at least ten of twelve consecutive quarters during the contract term, but not including the quarter in which the contract was awarded.

For each qualifying quarter meeting the criteria in paragraphs (i) and (ii) of this provision, the Forest Service will, upon the Contractor's written request, add an additional 3 months during the normal operating season to the contract, except no single 3-month addition shall extend the term of a contract by more than 1 year.

In no event shall a revised contract term exceed 10 years as a result of market-related contract term addition.

Additional contract time may not be granted for those portions of the contract that have a required completion date or for those portions of the contract where Contracting Officer determines that the timber is in need of urgent removal or that timber deterioration or resource damage may result from delay.

YURT ROAD MAINTENANCE REQUIREMENTS

FS-2400-13T Contracts (09/04)

WO-KT-FT.3.1# Special Provisions

SECTION 1. GENERAL

Purchaser's main Road Maintenance responsibility begins: (1) after Purchaser performs Prehaul Maintenance on a road listed in the Road Maintenance Requirements Schedule; or (2) for all other roads, when Purchaser begins to use the road. Occasional travel by Purchaser's light vehicles, prior to beginning of construction clearing or logging operations in the area accessed by the road, does not constitute beginning of use. Purchaser is not required to perform routine maintenance during periods of inactivity. During periods of inactivity, Forest Service will perform maintenance only as required to meet its needs.

The Purchaser shall maintain roads, commensurate with the Purchaser's use, in accordance with the Road Maintenance Requirements Summary and Road Maintenance Specifications. Performance of road maintenance work by the Purchaser may be required prior to, during, or after each period of use. The timing of work accomplishment shall be based on the Purchaser's operating schedule under Standard Provision **GT.3.1**.

If the Purchaser elects to use different roads than those listed in the Road Maintenance Requirements Summary, the Contracting Officer (CO) or designee shall determine the Purchaser's commensurate share of road maintenance and/or revise road maintenance deposits.

Unless the CO or designee agrees in writing, all Prehaul Maintenance requirements shall be completed on any portion of road prior to hauling on that portion.

The Forest Service shall prepare a revised Road Maintenance Requirements Schedule to reflect changes in the original haul routes when needed.

Any work or materials that are determined to no longer be needed and are waived shall have the estimated cost charged to the Timber Sale Account as described in **IT.3.3**.

YURT ROAD MAINTENANCE REQUIREMENTS

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WO-KT-FT.3.1# Special Provisions**

SECTION 2. ROAD MAINTENANCE DEFINITIONS

Wherever the following terms are used in the Road Maintenance Specifications, the meaning shall be:

Base Course. Material placed on the Subgrade to distribute concentrated wheel loads.

Borrow. Select Material taken from designated borrow sites.

Crown, Inslope, and Outslope. The cross slope of the Traveled Way to aid in drainage and traffic maneuverability.

Culverts. A conduit or passageway under a road, trail, or other obstruction. A culvert differs from a bridge in that it is usually entirely below the elevation of the Traveled Way.

Drainage Dip. A dip in the Traveled Way which intercepts surface runoff and diverts the water off the Traveled Way. A Drainage Dip does not block the movement of traffic.

Drainage Structures. Manufactured structures which control the runoff of water from the Roadway including Inslope, overside drains, aprons, flumes, downdrains and downpipes.

During Haul Maintenance. Road maintenance work to be accomplished during the period of timber removal.

Geotextile. A group of construction fabrics with varying attributes designed for different purposes.

Lead-off Ditches. A ditch used to transmit water from a Culvert, Drainage Structure or Drainage Dip outlet to the natural drainage area.

Maintenance Activity. Items of work leading to the restoration and upkeep of a road and necessary to sustain the road's anticipated traffic.

Material. Any substance specified for use in the performance of the work.

Post Haul Maintenance. Road maintenance work to be accomplished after timber removal is completed.

Prehaul Maintenance. Road maintenance work to be accomplished prior to the roads use. Roads receiving prehaul maintenance shall be shown on the Sale Area Map.

Road Maintenance Cost. An estimate of the cost to perform road maintenance activities; as determined by the Forest Service. Estimates may include any or all of the work activities listed in Section 4, Road Maintenance Activity Specifications.

Roadbed. The portion of a road between the intersection of Subgrade and sideslopes, excluding that portion of the ditch below Subgrade.

Roadside. A general term denoting the area adjoining the outer edge of the Roadway.

Roadway. The portion of a road within the limits of excavation and embankment.

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Sand Hole. A hole that develops in the running surface of the road which is quite soft and dangerous in nature. Usually found in very sandy soils.

Shoulder. That portion of Roadway contiguous with Traveled Way for accommodation of stopped vehicles, for emergency use, and lateral support of Base and Surface Course, if any.

Slide. A concentrated deposit of materials from above or on backslope extending onto the Traveled Way or Shoulders, whether caused by mass land movements or accumulated ravelling.

Slough. Material eroded from the backslope which partially or completely blocks the ditch, but does not encroach on the Traveled Way so as to block passage of traffic.

Slump. A localized portion of the Roadbed which has slipped or otherwise become lower than that of the adjacent Roadbed and constitutes a hazard to traffic.

Subgrade. Top surface of Roadbed upon which Base Course or Surface Course is constructed. For roads without Base Course or Surface Course, that portion of Roadbed prepared as the finished wearing surface.

Surface Course. The Material placed on the Base Course or Subgrade to enhance traction, distribute concentrated wheel loads and resist abrasion and the effects of climate. Surface Course may be referred to as surfacing.

Traveled Way. That portion of Roadway, excluding Shoulders, used for the movement of vehicles.

Turnouts. That portion of the Traveled Way constructed as additional width on single lane roads to allow for safe passing of vehicles.

SECTION 3. ROAD MAINTENANCE REQUIREMENTS SCHEDULE

See **WO-KT-FT.3.1#** Summary Table

SECTION 4. ROAD MAINTENANCE SPECIFICATIONS

INCLUDED SPECIFICATIONS

<u>Specification No.</u>	<u>Specification Title</u>
T-8030	Snow Removal
T-8130	Spot Surface Course Placement/Replenishment
T-8310	Ditch Cleaning
T-8340	Drainage Structure Maintenance
T-8350	Roadway Drainage Maintenance
T-8360	Composite High Clearance Road Maintenance
T-8620	Miscellaneous Maintenance

YURT ROAD MAINTENANCE REQUIREMENTS

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WO-KT-FT.3.1# Special Provisions

T-8030 Snow Removal

DESCRIPTION

- 1.1 This Section provides for removal of snow from roads to facilitate logging operations and safe use. Remove snow from all or part of the traveled way, including sufficient turnouts for safe and efficient use for timber transportation and to protect the road. Remove intruding windfalls, debris or slough and slide material and dispose of only as necessary to provide passage for timber transportation. Removed materials may be deposited off the traveled way or outside the traveled way at locations designated by the Forest Service Representative (FSR). Snow may also be compacted as needed to freeze down soft areas or wet areas. This work is considered part of this specification. Equipment used for this work shall be in accordance with this specification and approved in advance by the FSR.

EQUIPMENT

- 2.1 Purchaser may use any type of equipment to remove snow, providing:
- Type or use of equipment is not restricted in **KT-FT.1.2#** or Schedule document.
 - Equipment is of the size and type commonly used to remove snow and will not cause damage to the road. Tracked or cleated vehicles shall not be used unless approved in writing by the FSR.
 - The Blade will be equipped with skid shoes to prevent loss of surfacing and damage to the road bed. On gravel and native surface roads, a minimum 4 -inch depth compacted snow mat will be maintained on the roadbed during blading.

REQUIREMENTS

- 3.1 Erect signs required by the Sign Plan in the SUPPLEMENTAL SPECIFICATIONS or as shown on the Section 3. Road Maintenance Requirements Schedule. Perform work in a manner to preserve and protect roads and appurtenances, and prevent erosion damage to roads, streams, and other forest values.
- 3.2 Space, construct, and maintain drainage holes in the dike of snow or berm caused by snow removal operations. Place drain holes to obtain surface drainage without discharging on erodible fills.
- 3.3 Upon seasonal completion of Purchaser's Operations, effectively block the road by a snow barricade, unless otherwise approved by the Contracting Officer.
- 3.4 Ice control may be performed by Purchaser when approved by the FSR in writing. Such approval will include ice control materials, application rates, and any specific requirements of use.
- 3.5 Snow berms will be reduced at road intersections where plowed road segments join unplowed road segments. Reduce the piled snow in the roadway to create a smooth transition from plowed road to normal snow depth.

YURT ROAD MAINTENANCE REQUIREMENTS

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WO-KT-FT.3.1# Special Provisions

T-8130 Spot Surface Course Placement/Replenishment

DESCRIPTION

- 1.1 Spot Surface Course Placement/Replenishment includes Subgrade preparation, furnishing, hauling, spreading and shaping materials in accordance with the requirements.

MATERIALS

- 2.1 Surface Course Material will be in accordance with the subsection 3.2 of these specifications. Only commercial sources of aggregate will be accepted, except surfacing material may also be purchased from the government, where available, by filling out a form 2600, paying the required fees, and obtaining a permit.

REQUIREMENTS

- 3.1 Subgrade Preparation. Prepare Subgrade to receive Surface Course Material at locations as designated on-the-ground by the Forest Service on roads listed below. Prepare the Subgrade by shaping the Roadbed to approximately the original cross-section and consistent with adjacent sections.
- 3.2 Furnish, haul and spread Material at locations designated on the ground by the Forest Service (FS). Compact the aggregate by operating spreading and hauling equipment over the full width of each layer of the aggregate, or by other methods as specified below.

Road Number	Type Material	Finished Compacted Thickness Specified	Total Quantity (Tons or cu.yds.)	Compaction Method
3110-2Z	Pit Run Gravel ^{1/}	MP's 0.01-0.03 ^{2/}	45 CY (58.5) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.08 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.11 ^{2/}	30 CY (39) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.12 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.13 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.135 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Local Borrow	MP 0.18 (right) ^{2/}	30 CY	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.18	30 CY (39) ^{3/}	See 3.2 Above
3110-3Z	Crushed Aggregate ^{4/}	MP 0.01 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP 0.2; 50'x12'x8"	15 CY (19.5) ^{3/}	See 3.2 Above
3110-W	Pit Run Gravel ^{1/}	MP's 0.00- 0.01 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Crushed Aggregate ^{4/}	MP 0.01 ^{2/}	15 CY (19.5) ^{3/}	See 3.2 Above
"	Pit Run Gravel ^{1/}	MP's 0.04-0.07 150'x12'x6"	33 CY (43) ^{3/}	See 3.2 Above

^{1/} Stambaugh Pit, as shown on Sale Area Map.

^{2/} As directed by the Forest Service.

^{3/} Quantity of material in () is the approximate loose volume.

^{4/} Furnish, haul, and place. Must meet M-DOT Designation 22A.

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Road Number	Type Material	Finished Compacted Thickness Specified	Total Quantity (Tons or cu.yds.)	Compaction Method
3110-W1	Pit Run Gravel ^{1/}	MP 0.00 – 0.03 ^{2/}	60 CY (78) ^{3/}	See 3.2 Above
“	Local Borrow	MP 0.28 (left) ^{2/}	Construct Turnaround	See 3.2 Above
3110-Y	Pit Run Gravel ^{1/}	MP 0.07 – 0.16 475'x12'x6"	106 CY (138) ^{3/}	See 3.2 Above
“	Local Borrow	MP 0.28 (left & right)	Widen & Place in Turnaround Radius	See 3.2 Above
3119	Crushed Aggregate ^{4/}	MP 0.01	15 CY (19.5) ^{3/}	See 3.2 Above
“	Pit Run Gravel ^{1/}	MP 0.81	30 CY (39) ^{3/}	See 3.2 Above

^{1/} Stambaugh Pit, as shown on Sale Area Map.

^{2/} As directed by the Forest Service.

^{3/} Quantity of material in () is the approximate loose volume.

^{4/} Furnish, haul, and place. Must meet M-DOT Designation 22A.

3.3 Variations. The Purchaser will be required to furnish weight tickets to the FS for each load of commercially obtained crushed aggregate prior to the final inspection. For aggregate purchased from the government, a count of truck loads will be required in addition to finished depth checks for the placed and compacted aggregate. Widths and lengths will be as staked or from schedule. When it is mutually agreed that all or part of the Surface Course Material is not needed, the estimated cost of surfacing not placed shall be charged to the Timber Sale Account in accordance with **IT.3.3**.

T-8310 Ditch Cleaning

DESCRIPTION

1.1 Ditch cleaning is the removal and disposal of all accumulated organic and Slough Material from Roadway ditches to provide a positive draining waterway of uniform width, depth, and grade.

REQUIREMENTS

3.1 Ditch cleaning shall be repeated during sale operations as often as necessary to facilitate proper drainage.

YURT ROAD MAINTENANCE REQUIREMENTS

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WO-KT-FT.3.1# Special Provisions

3.2 All Slough Material or other debris which might obstruct water flow in the Roadway ditch shall be removed. Material removed from ditches that are not suitable for blending into the existing surface course shall be disposed of in places agreed to in writing by the FSR.

3.3 Roadway back slopes shall not be undercut.

T-8340 Drainage Structure Maintenance

DESCRIPTION

1.1 This work consists of maintaining and/or installation/removal of Drainage Structures and related items such as: inlet and outlet channels, existing riprap, trash racks, necessary geotextiles, pipes, and drop-inlets.

MATERIALS

2.1 All Materials used in the maintenance and/or installation/removal of Drainage Structures shall conform by type and specification to the Material in the structure being maintained or as indicated in the subsection 3.3 below.

REQUIREMENTS

3.1 Drainage Structures and related items shall be cleared of all foreign Material deposited above the bottom of the structure and all vegetative growth which interferes with the water flow. Material removed that cannot be incorporated into maintenance work shall be uniformly placed on fill slopes unless agreed otherwise.

3.2 Perform maintenance to insure the proper functioning of the head walls, aprons, inlet assemblies, riprap, trash racks and other facilities related to the Drainage Structure.

3.3 Install/remove ditches, drainage dips, rock crossings and/or culverts as shown below, and as marked on the ground. Installation of structures shall not begin without the presence of a FSR unless agreed to in writing by the FSR.

Road Number	Location	Remove/Install	Type of Structure	Size	Quantity
3110-2Z	MP's 0.01 – 0.18	Install	Leadout Ditches	As Directed	As Directed
3110-3Z	MP's 0.00 – 0.30	Install	Leadout Ditches	As Directed	As Directed
3110-W	MP 0.01	Restore	Inlet/Outlet Ditches at Existing Culvert	Per Typical Drawing	1 each
3110-W1	MP's 0.00 – 0.28	Install	Leadout Ditches	As Directed	As Directed
3110-Y	MP's 0.02 – 0.31	Install	Leadout Ditches	As Directed	As Directed
3119	MP 0.81	Remove/Dispose	Culvert	Existing	1
3119	MP 0.81	Install	Culvert ^{1/}	15"x24'	1

^{1/}High Density Smooth Lined Double Walled Polyethylene Drainage Culvert (HDPE)

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WO-KT-FT.3.1# Special Provisions

- 3.4 Installation shall be in accordance with construction industry standards and practices.
- 3.5 Culverts designated for removal/disposal shall become the property of the Purchaser and shall be disposed of properly.
- 3.6 Temporary culverts provided by the USFS shall remain the property of the government.
- 3.7 Bridges. Any miscellaneous parts needing repair or replacement during normal use of any bridge during haul shall be considered maintenance. This includes minor items such as object markers, running planks that have loosened or cracked deck boards, or drainage structures which may become plugged. Bridge decks that are dirt and dust covered shall be cleaned to allow for proper drainage and for safety of the user.

T-8350 Roadway Drainage Maintenance

DESCRIPTION

- 1.1 This work consists of providing Post Haul drainage on roads.

MATERIALS

- 2.1 All Materials used in the maintenance and/or installation/removal of Drainage Structures shall conform by type and specification to the Material in the structure being maintained, or as indicated in subsection 3.3.

REQUIREMENTS

- 3.1 Upon completion of work, shape the roadway to provide for the removal of surface water. The roadway need not be passable to vehicles (ML-1 roads). Repair and reinstall waterbars, barriers or berms existing prior to the Purchaser's operation. Areas where water is ponded by existing centerline profile sags in through cuts may be left untreated.
- 3.2 Any of the following methods are acceptable for use at eroded or rutted locations:
 - (a) Method A: Outsloping the roadbed at not less than ½ inch per yard of width.
 - (b) Method B: Insloping the roadbed at not less than ½ inch per yard of width.
 - (c) Method C: Water bar roadbed at locations staked on the ground and construct as shown on the enclosed detail.
 - (d) Method D: Crown the roadbed as shown in the attached detail as the typical section for that length of road.
- 3.3 Drainage structures located in roadbed through fills and natural watercourses shall be fully functional without obstructions, including inlet and outlet channel within 20 feet of the structure. **(All structures within termini indicated in WO-KT-FT.3.1# Summary Table).**
- 3.4 Entrance Devices. Upon completion of work, replace entrance devices to effectively

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eliminate access by motorized vehicles (ML-1).

- 3.5 Seed and fertilize all disturbed areas in accordance with requirements set forth in T-8410 Vegetation Establishment.

T-8360 Composite High Clearance Road Maintenance

DESCRIPTION

- 1.1 This work consists of making limited use roads passable for project use by Purchaser and providing drainage from the traveled way and roadbed.

MATERIALS

- 2.1 Required materials are listed in subsection 3.2.

REQUIREMENTS

3.1 Traveled Way

A. Purchaser may smooth or fill existing cross ditches and waterbars and, by agreement, modify existing road junction to enable vehicle access. Prior to beginning haul and resumption of haul after an extended stoppage:

1. Remove brush, fallen trees, rocks, and other debris from traveled way, including turnouts, turnarounds, and other locations that interfere with needed maintenance. No object extending over 4 inches above the road surface shall remain within the 12 feet usable traveled way.
2. Center the usable width of the roadbed or position away from the fill slope.
3. Cut and remove standing or down trees, logs, brush, and limbs from within the 12 feet usable traveled way. Remove encroaching limbs to a height of 14 feet above the traveled way surface. Scatter material not meeting utilization standards outside and below the roadbed on the fill side. Limb and remove designated timber which meets utilization standards or deck at agreed locations.
4. Place all removed material away from drainages and in locations previously agreed to in writing by the FSR.
5. During use, maintain drainage structures including dips, ditches and culverts in a usable condition and surface in a flat, Insloped or Outsloped, or Crowned usable condition, **per Typical Drawing.**

- 3.2 Drainage Facilities. Clean and recondition drainage facilities in accordance with T-8310 Ditch Cleaning and T-8340 Drainage Structure Maintenance. **See Table in T-8340 for new structures; maintain all other structures per 3.1, Item 5 above within termini indicated in WO-KT-FT.3.1# Summary Table.**

3.3 Slough and Slides

1. Slough and Slides may be left in place provided surface drainage is adequately provided and at least 12 feet of width is available for vehicle passage.
2. Purchaser may reposition or ramp over Slides and Slough when the Traveled Way is

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less than 12 feet providing the material is capable of supporting vehicles. Limit Outslope to no more than six percent.

3. Reposition Slough or Slide materials, which are not capable of supporting a vehicle, on the roadbed to provide the 12 feet width. When directed by Forest Service, Slough or Slide material will be removed under Section T-8320 Slide, Slump, and Erosion Repair.

3.4 Slumps, Eroded areas, and Washouts

1. Drain the roadbed immediately upgrade of Slumps and longitudinal cracks to prevent water from entering Slump area.

2. Slumps and longitudinal cracks at the edge of the roadbed shall not be considered a part of the usable width. Usable width may be reduced to ten feet in the area of the Slump.

3. Unless Forest Service agrees to material being placed on Slumps, ramp the Slumps on both ends into undisturbed roadbed to provide at least ten feet usable width. Use removed materials to guide vehicles to the ramp location or to aid in draining the area.

4. Eroded areas/washouts may be filled with suitable material and compacted by operating equipment over the fill area.

3.5 Posthaul

A. At the end of hauling or prior to entering into seasonal shutdowns or a period of extended inactivity:

1. Shape the traveled way and disturbed roadbed to provide functional drainage.

2. Reinstall removed cross ditches and waterbars and provide any additional drainage structures necessary to offset changes caused through use and maintenance.

3. Leave roads useable for high clearance vehicles. Remove or reshape Purchaser modifications at road junctions to leave the entrance as it was before use, or as agreed at the time of improvement.

4. Close all roads which were closed previously, using prior existing methodology.

T-8620 Miscellaneous Maintenance

DESCRIPTION

1.1 Maintenance of miscellaneous structures includes cattle guards, gates (this includes all types of closure devices such as logs, rocks, dirt berms, dirt and slash berms, metal gates, etc), signs, and other similar structures that have been previously installed to insure safe and efficient operation of the road.

MATERIALS

2.1 Any Materials needed in the maintenance of miscellaneous structures shall be similar in type and quality to the Material in the structure being maintained.

REQUIREMENTS

3.1 Cattle guards. Loose rails shall be welded or bolted back in place.

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Excess Material carried into the cattle guard shall be removed when drainage is blocked or when it reaches six inches from the bottom of the cattle guard frame. Drainage into and from the cattle guard shall be kept open.

3.2 Gates (and other closure devices). Gates shall be kept in good repair and made to swing easily. Hinges or latches shall be repaired if not operating properly. Brush and debris shall be removed from within the swinging radius. Weathered berms or wood piles shall be reconstructed to a height which discourages use and blocks the road.

3.3 Signs. Any signs needing repair or replacement shall be installed per sign placement detail or MUTCD direction. All roads shall have legible sign numbers. ML 3-5 roads shall have horizontal numbering and ML 1-2 roads shall have vertical numbers. The material used shall be as directed by the Forest Service Representative. All new signs must meet retroreflectivity requirements.

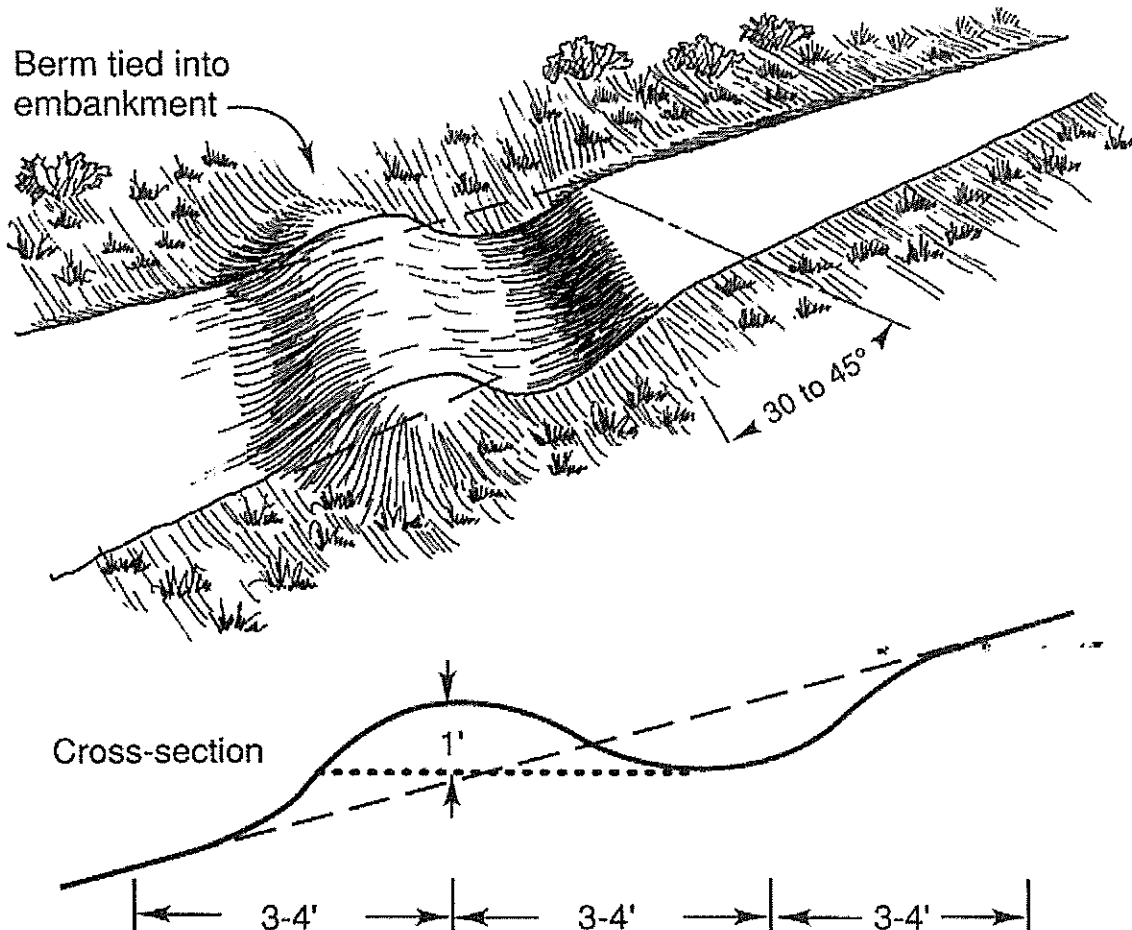
Road Number	Road Name	Location	Remove/Install	Type of Item	Size	Quantity
3110-W	3110-W	MP 0.08	Remove/Install ^{1/}	Berm	^{2/}	1
3110-Y1	3110-Y1	MP 0.00 – 0.02	Remove ^{3/}	Gate & Receiving Post	Existing	1
3110-Y	3110-Y	MP 0.02	Maintain	Specified Gate	3'x20'	1

^{1/} At Location Designated by Forest Service

^{2/} Per Typical Drawing – Earthen Berms/Road Closure Devices

^{3/} Place adjacent to removal site. Forest Service shall Haul and Retain Ownership of Gate.

Earthen Berms/Road Closure Devices (Typical Drawing)



Earth berm/water bars are narrow, earthen ridges built across roads or trails. They divert water off and away from roads or trails into vegetated areas before it causes erosion. When properly built, they prevent exposed soil from moving, protecting the area until grass vegetation is firmly established.

As shown in the above drawing, the berm/water bar should be placed at an angle of 30 to 45 degrees, relative to the road, to allow for runoff to drain from the inlet, through the trench, and into the adjacent forest floor or vegetation.

Dig a trench, 12 to 18 inches below the surface of the road or trail, and extend it beyond both sides of the road or trail to prevent runoff from bypassing the water bar. The uphill end of the water bar should extend beyond the side ditch of the road and into an earth-berm to fully intercept any ditch flows. The outflow end of the water bar is to be fully open and extended far enough beyond the edge of the road or trail to safely disperse runoff water onto the undisturbed forest floor. When placement of the closure device does not require the berm to also function as a water bar for drainage, the trench will not be required.

Height of the berm will be approximately 4 feet. Rocks/boulders, logging slash, cull logs, and stumps may be incorporated into the ridge of earth during construction of the berm as long as proper drainage will be maintained and the road is completely blocked; unless otherwise agreed in writing.